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(19) **United States**(12) **Patent Application Publication**  
**von Hoffmann et al.**(10) **Pub. No.: US 2016/0199685 A1**(43) **Pub. Date: Jul. 14, 2016**(54) **TONING GARMENT WITH MODULAR  
RESISTANCE UNIT DOCKING PLATFORMS**(71) Applicant: **Tau Orthopedics, LLC**, Coto de Caza,  
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Solana Beach, CA (US)(21) Appl. No.: **15/078,250**(22) Filed: **Mar. 23, 2016****Related U.S. Application Data**(63) Continuation-in-part of application No. 15/069,053,  
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cation No. 14/665,947, filed on Mar. 23, 2015, which is  
a continuation-in-part of application No. 12/951,947,  
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is a continuation-in-part of application No. 12/797,  
718, filed on Jun. 10, 2010, now abandoned, said appli-  
cation No. 14/665,947 is a continuation-in-part of  
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14/217,576, filed on Mar. 18, 2014, now Pat. No.9,327,156, which is a continuation-in-part of applica-  
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doned.(60) Provisional application No. 61/218,807, filed on Jun.  
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**23/0405** (2013.01)**ABSTRACT**(57) Disclosed is a technical training garment configured for use  
with modular, interchangeable electronics and resistance  
modules. The garment provides resistance to movement  
throughout an angular range of motion and tracks biome-  
chanical parameters such as stride length, stride rate, angular  
velocity and incremental power expended by the wearer. The  
garment may be low profile, and worn by a wearer as a  
primary garment or beneath or over conventional clothing.  
Alternatively, the device may be worn as a supplemental  
training tool during conventional training protocols.